

# Cumberland County



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# Bridgeton City Water Department Well Field Contamination

Burlington Road                      Bridgeton City                      Cumberland County

**BLOCK:** 9            **LOT:** 10

**CATEGORY:** Non-Superfund  
State Lead, IEC

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential/Commercial

## MEDIA AFFECTED

Ground Water

## CONTAMINANTS

Trichloroethylene (TCE)

## STATUS

Confirmed

Potable Water

Trichloroethylene (TCE)

Blending

## FUNDING SOURCES

1986 Bond Fund

## AMOUNT AUTHORIZED

\$675,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Routine water sampling conducted by the Bridgeton City Water Department in 1994 revealed that two of their municipal wells were contaminated with trichloroethylene. The source of the contamination is unknown. The City of Bridgeton is reducing the contamination to acceptable levels by blending the water from the affected wells with water from another source. In 1997, NJDEP completed a Remedial Investigation and Remedial Action Selection (RAS) that concluded the most cost-effective remedy was the installation of air strippers on each of the contaminated wells. The design and construction of the air strippers is being conducted by the City of Bridgeton using Hazardous Discharge Bond Fund money provided by NJDEP. Construction of the treatment systems is scheduled to begin in the fall of 1998.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Sitewide					
					<input type="checkbox"/> Planned
					<input checked="" type="checkbox"/> Underway
					<input type="checkbox"/> Completed
					<input type="checkbox"/> Not Required

# Deerfield Township Ground Water Contamination

Kenyon Avenue

Deerfield Township

Cumberland County

**BLOCK:** Various **LOT:** Various

**CATEGORY:** Non-Superfund  
State Lead, IEC

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Mercury	Confirmed
Potable Water	Mercury	Treating

FUNDING SOURCES	AMOUNT AUTHORIZED
Spill Fund	\$12,000

**SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:**

In 1993, the Cumberland County Health Department determined that 12 private potable wells in this area were contaminated with mercury. Additional sampling has sporadically detected mercury compounds in the ground water throughout Deerfield Township. NJDEP has installed Point-of-Entry Treatment (POET) water filtration systems in the affected homes to provide potable water for these residents. NJDEP conducted a preliminary assessment and site investigation which concluded that the mercury contamination is the result of historical agricultural practices combined with relatively shallow private wells. NJDEP will continue to monitor the wells equipped with POETs, and will expand the potable well monitoring program to ensure that no additional wells in the area are affected.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)	<div></div>	<div></div>	<div></div>	<div></div>	<div></div> Planned
					<div></div> Underway
					<div></div> Completed
					<div></div> Not Required

# Garrison Road Ground Water Contamination

Garrison Road and West Korpp Drive

Vineland City

Cumberland County

**BLOCK:** Various **LOT:** Various

**CATEGORY:** Non-Superfund  
State Lead, IEC

**TYPE OF FACILITY:** Unknown Source  
**OPERATION STATUS:** Not Applicable

**PROPERTY SIZE:** Not Applicable

**SURROUNDING LAND USE:** Residential

## MEDIA AFFECTED

## CONTAMINANTS

## STATUS

Ground Water

Volatile Organic Compounds

Confirmed

Potable Water

Mercury  
Volatile Organic Compounds

Alternate Water Supply  
Provided

Soil

Volatile Organic Compounds

Confirmed

## FUNDING SOURCES











## AMOUNT AUTHORIZED

1981 Bond Fund

\$546,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

In 1991, the Vineland City Health Department determined that 26 private potable wells in this area were contaminated with mercury and volatile organic compounds. NJDEP installed Point-of-Entry Treatment (POET) water filtration systems in affected homes as an interim measure, and in 1994 a public water line was extended to these residences as a permanent solution. The POETs were disconnected as the residences were hooked up to the water line. NJDEP is conducting a preliminary assessment and site investigation to identify the source of the contamination and will monitor the potable wells around the Ground Water Impact Area.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Receptor Control (POETS)					 Planned
Receptor Control (Water Line)					 Underway
					 Completed
					 Not Required

# Nascolite Corporation

Doris Avenue

Millville City

Cumberland County

**BLOCK:** 234    **LOT:** 60

**CATEGORY:** Superfund  
Federal Lead

**TYPE OF FACILITY:** Manufacturing-Plastics  
**OPERATION STATUS:** Ceased

**PROPERTY SIZE:** 17.4 Acres

**SURROUNDING LAND USE:** Residential/Industrial

## MEDIA AFFECTED

Ground Water

## CONTAMINANTS

Volatile Organic Compounds  
Base Neutral Extractable Compounds  
Semi Volatile Organic Compounds

## STATUS

Treating

Potable Water

Volatile Organic Compounds  
Base Neutral Extractable Compounds

Alternate Water Supply  
Provided

Soil

Lead

Delineated

Structures

Asbestos

Demolition Planned with  
Asbestos Abatement

## FUNDING SOURCES

Superfund  
1986 Bond Fund

## AMOUNT AUTHORIZED

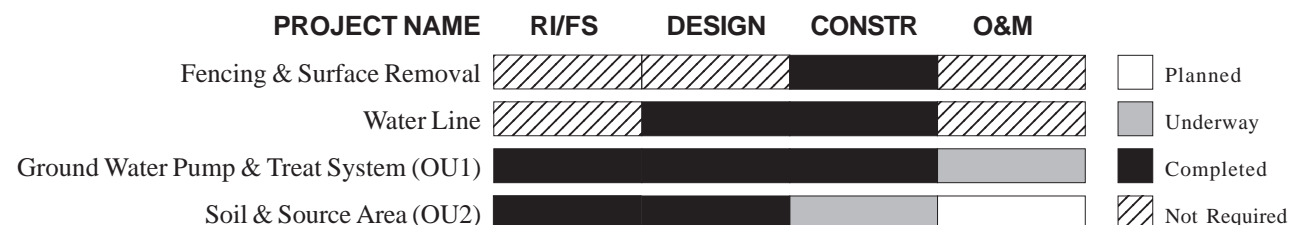
\$10,943,000  
\$700,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Nascolite Corporation reclaimed scrap acrylic material and manufactured Plexiglas sheets at this site between 1953 and 1980. Liquid wastes from the distillation of scrap acrylic were stored in several underground storage tanks at the plant. Shortly after operations at the site ceased, NJDEP conducted a preliminary investigation which revealed that at least one of these underground storage tanks had leaked. Sampling conducted during this preliminary investigation confirmed that there was significant contamination in the ground water. USEPA added Nascolite Corporation to the National Priorities List of Superfund sites in 1984 and initiated a Remedial Investigation and Feasibility Study (RI/FS) at the site in 1985. The RI/FS activities included sampling of the soil, ground water, waste materials and nearby private potable wells. Between 1987 and 1988, USEPA disposed of 100 55-gallon drums, removed the underground tanks, and installed a fence around the site.

After the initial RI/FS was completed, USEPA divided the site into two Operable Units (OU): contaminated ground water (OU1) and contaminated soils and buildings (OU2). In 1988, USEPA signed a Record of Decision (ROD) for OU1 with NJDEP concurrence. This ROD required extension of a public water line to six nearby residences with potable wells that were at risk of becoming contaminated, and installation of an on-site remediation system to extract and treat the contaminated ground water. The ROD also required a supplemental RI/FS to further evaluate the soil and building contamination. The Responsible Parties for the site installed the water line extension in 1989, and completed construction of the OU1 ground water remediation system in 1996. The ground water treatment system is currently operating.

In 1991, after completing the supplemental RI/FS, USEPA signed a second ROD with NJDEP concurrence for OU2. It requires demolition of the site structures, excavation and solidification/stabilization of contaminated soil and wetlands with replacement of the solidified soil on site, and restoration of the affected wetlands. USEPA has completed the Remedial Design for OU2, and is awaiting funding approval to implement the remedial actions.



# Vineland Chemical Company Incorporated

1611 West Wheat Road      Vineland City      Cumberland County

**BLOCK:** 173      **LOT:** 1

**CATEGORY:** Superfund  
Federal Lead

**TYPE OF FACILITY:** Manufacturing-Chemical  
**OPERATION STATUS:** Ceased

**PROPERTY SIZE:** 20 Acres

**SURROUNDING LAND USE:** Residential/Industrial





















MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Metals Trichloroethylene	Delineated
Surface Water	Metals	Delineated
Soil	Metals	Delineated
Sediment	Metals	Delineated

FUNDING SOURCES	AMOUNT AUTHORIZED
Superfund	\$39,600,000
1986 Bond Fund	\$2,750,000

## SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

Vineland Chemical manufactured arsenic-based herbicides at this site from the 1950s to 1994. The facility consists of manufacturing and storage buildings, a laboratory, several lagoons and former chicken coops. Prior to 1977, the company stored wastes containing high levels of arsenic in the unlined lagoons and chicken coops. These practices resulted in arsenic contamination of the soils and ground water. In addition, there is off-site contamination in the adjacent surface water bodies of Blackwater Branch, Maurice River and Union Lake. The site was placed on the National Priorities List of Superfund sites in 1984.

In 1989, USEPA completed a Remedial Investigation and Feasibility Study (RI/FS) and signed a Record of Decision (ROD) with NJDEP concurrence. The ROD divided the site into four Operable Units (OU). The consolidation and treatment, by soil flushing, of on-site contaminated soils has been designated as OU1. The containment, extraction and treatment of the contaminated ground water has been designated as OU2. OU3 and OU4 pertain to the cleanup of the arsenic-contaminated sediments in the rivers and Union Lake, respectively. USEPA completed a Remedial Design for the OU2 ground water extraction and treatment system in early 1997, and construction of the OU2 remedy began in late 1997. The Remedial Design to develop the engineering plans and specifications for OU1 and OU3 are underway and expected to be completed in 1998. Although funds for the Remedial Design for OU4 have been authorized, the ROD calls for a three-year waiting period after the remediation of OU1 and OU2 to allow for natural flushing of the river system after the source of contamination has been removed.

PROJECT NAME	RI/FS	DESIGN	CONSTR	O&M	
Former Plant Area & Soils (OU1)					 Planned
Plume (OU2)					 Underway
Blackwater Branch & Maurice River (OU3)					 Completed
Union Lake (OU4)					 Not Required

